

CONAGRA PERMIT

Main State and Federal Permit Requirements

P Apply Best Available Control Technology

P Demonstrate that new air emissions will not cause or contribute to a violation of the National Ambient Air Quality Standards

P IDEM cannot deny a permit because:

- ▶ Ozone levels may increase somewhere in the area
- ▶ Solely because the region does not now meet the new ozone health standard

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AIR QUALITY REVIEW FOR CONAGRA PERMIT

1. Evansville Region Emissions / Air Quality Data Review

- * ConAgra is 3% of Region's Volatile Organic Compounds**
- * ConAgra is 0.1% of Region's Nitrogen Oxides**
Evansville Region Contributes 2-25 ppb to high ozone
- * Rest of ozone occurs through transport into region**

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AIR QUALITY REVIEW FOR CONAGRA PERMIT (cont'd)

2. Simple Air Quality Model - Reactive Plume Model IV

- * Very simple model predicts worst-case ozone impact of 2 ppb

3. Detailed Air Quality Model - Urban Airshed Model

- * Model predicts ozone impacts of 0.2 ppb to 2 ppb on 8-hour average
- * Impact on “design” ozone reading less than 1 ppb

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ConAgra Satisfied All Permit Requirements

- P Air pollution controls are best in nation for soybean processors**
- P New air emissions do not cause or contribute to health standard violation**
- P Offset condition requires some compensating pollution reductions**
- P Air quality review goes beyond USEPA requirements and other states' practices**

Solving Evansville's Ozone Problem

P Deal with Ozone Transport into Metropolitan Areas

P Implement Regional Solutions

- ▶ Nitrogen Oxide reductions from power plants, boilers, others
- ▶ Tighter national automobile standards
- ▶ Cleaner gasoline nationally

Solving Evansville's Ozone Problem

(cont'd)

P Indiana's Nitrogen Oxides Rule

- ▶ Draft rules publish May 1, 1999
- ▶ Statewide NO_x emissions reduced up to 36%
- ▶ Surrounding states developing comparable rules
- ▶ Compliance required by May 2003

P Further local control measures

- ▶ As needed to meet new standard
- ▶ As desired to accomodate future growth

Areas That Do Not Meet New Ozone Standard

- P Most metropolitan areas in East will not meet the new standard**
 - 7 areas in Indiana**
- P Congress gave states until 2003 or beyond to achieve the new ozone health standard**
- P Tougher new source rules are not imposed until after 2003**
- P States must complete Ozone Control Plans by either April 2000 or 2003**

Areas That Do Not Meet New Ozone Standard (cont'd)

- P USEPA assumes the Nitrogen Oxides reduction plan will solve Evansville's ozone problem and account for industrial growth**
- P States' Ozone Control Plans will account for some growth**
 - ▶ By industry and commerce
 - ▶ In transportation

Next Steps for Evansville Region

- P Incorporate statewide / regionwide NO_x controls into plan**
- P Finish further Urban Airshed Modeling to determine need for local control measures**
- P Select any desired local control measures**
 - To meet the new ozone standard
 - To allow for any desired growth